

Summary of Clinical Case Studies utilizing Horizontal® Therapy for the Treatment of 496 Patients suffering from Osteoarthritis, Lumbar Pain and other Pain Conditions

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Translation from German

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Abstract

On May 13, 2000, M. KLOTZBÜCHER, M.D. reported his treatment results with the ElecDT Horizon¹ at the third annual congress of Horizontal therapy. KLOTZBÜCHER treated 122 patients between October 1999 and May 2000 splitting them into five groups according to the following indications: Lumbar pain, Cervical spine syndrome, Osteoarthritis of the knee, Epicondylitis and Tinnitus. An overwhelmingly high success rate was achieved, on average 80% with respect to the different indications. He now reports treatment results of an additional 374 patients. In total, he treated 496 patients between October 1999 and May 2002 (30 months).

Introduction

Horizontal®-Therapy is a new bioelectric treatment method developed as the evolution of EDT by HANSJÜRGENS PhD. The basic motivation in developing Horizontal®-Therapy was the fact that conventional bioelectric therapy is only able to achieve major therapeutic effects from one of the two known therapeutic effect classes at a specific time in a specific treatment area: Either a biochemical effect or a bioelectric effect. The physiological makeup of Horizontal®-Therapy current on the other hand provides simultaneous delivery of a specific bioelectric therapeutic effect and a specific biochemical therapeutic effect in the same treatment area. This advancement had prompted investigations of the efficacy of Horizontal®-Therapy application into several indications. The result of DR. KLOTZBÜCHER'S work has been published at the third annual Horizontal®-Therapy congress in Göttingen, Germany, in 2000. The promising preliminary results mandated further investigation into short-term and long-term efficacy of Horizontal®-Therapy as well as the investigation on a broader patient population of further Indication.

Method

KLOTZBÜCHER treated patients until symptoms related to the indications disappeared. For the purpose of this investigation, KLOTZBÜCHER defines success as a disappearance of symptoms. Some patients decided to discontinue treatments after only a few sessions. KLOTZBÜCHER discontinues treatment if a patient did not show significant improvements within the first eight to ten treatments.

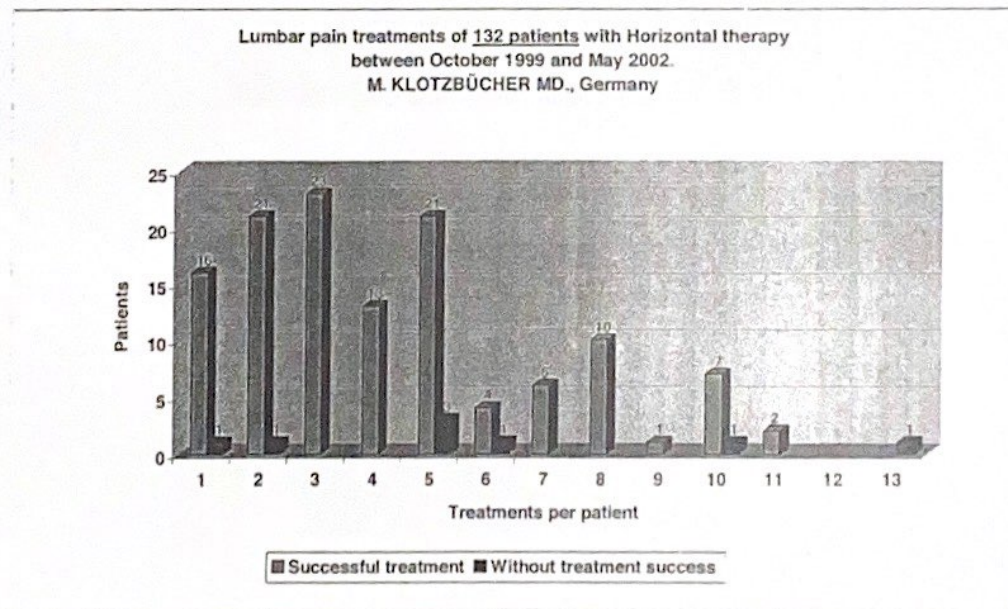
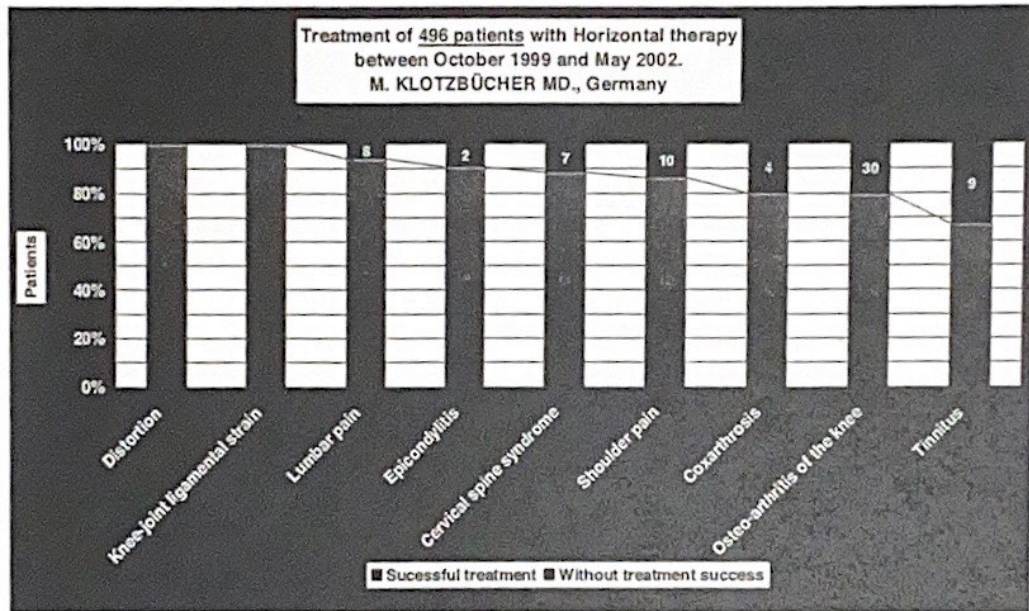
He treated 496 patients between October 1999 and May 2002 splitting them into nine groups of the following indications: Distortion, Knee-joint ligament strain, Lumbar pain, Epicondylitis, Cervical spine syndrome, Shoulder pain, Coxarthrosis, Osteoarthritis of the knee with and without arthroendoscopy, and Tinnitus.

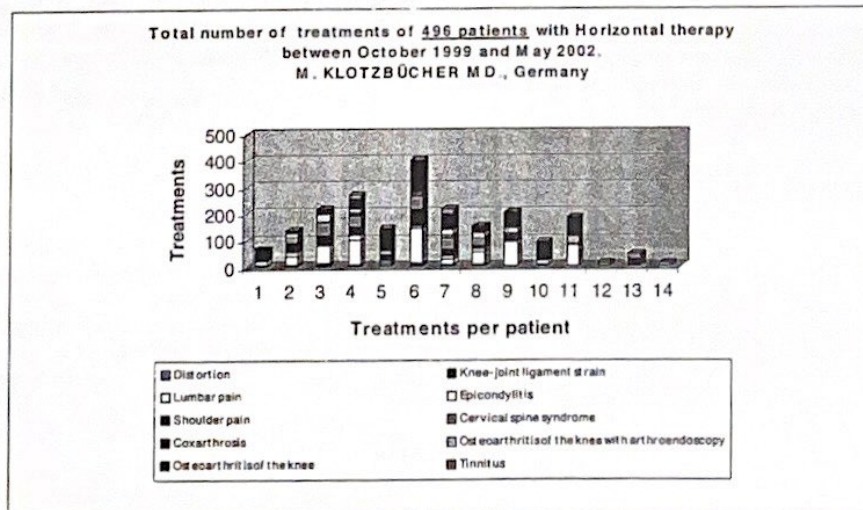
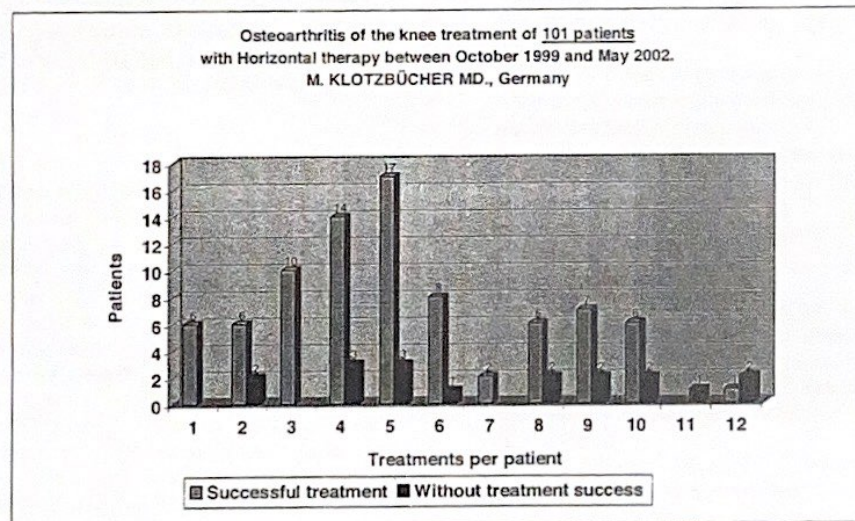
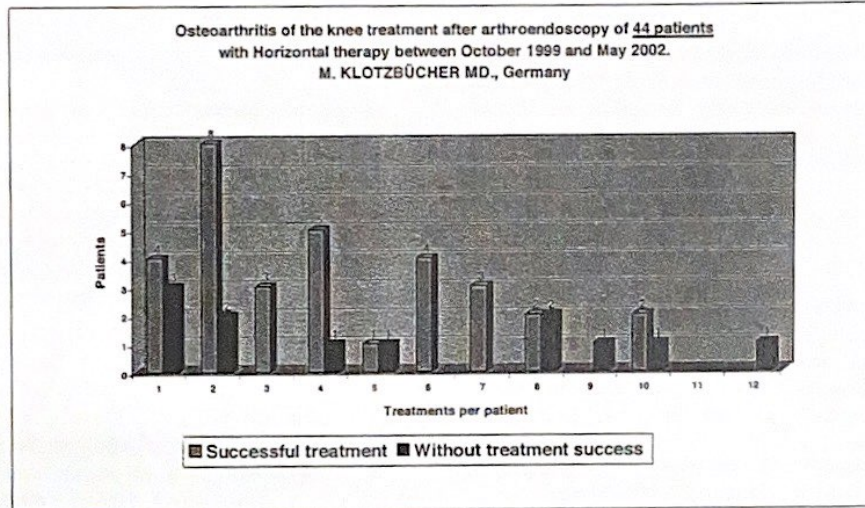
The first group contains 7 patients suffering from distortion. The second group was comprised of 11 patients with strain Knee-joint ligament. The third group had 132 patients with Lumbar pain. The fourth group had 21 patients with Epicondylitis. The fifth group was made up of 60 patients with cervical spine syndrome. The sixth group had 73 patients with Shoulder pain. The seventh Group had 20 patients with Coxarthrosis. The eighth group had 145 patients with Osteoarthritis of the knee and the ninth and last group had 27 patients with Tinnitus.

The first two treatments were applied locally. Two electrodes were used in treating Tinnitus; four electrodes were applied at all other indications. From the third session onwards, an additional whole body treatment was added. The intensity was adjusted a little above sensation threshold. While treating Tinnitus, the intensity was adjusted below sensation threshold. Programs used for all indication were DIASCAN, horizontal stimulation 1-100, horizontal stimulation 100 and 4 400 Hz. For the whole body treatment SCAN or DIASCAN were used.

¹ElecDT® Horizon is an electrotherapy device supplying Horizontal®-Therapy which has been developed by HAKO-MED G.m.b.H., Germany

5 Figures : Data





Discussion and Results

The use of Horizontal®-Therapy achieved a success rate which ranged from 80% to 90%. Most patients experienced freedom from pain after only a few treatments. Range of motion was improved significantly. Within a few treatments, swellings were also reduced significantly. The result that every patient was treated only six times in the average is a little surprisingly. On average only 6 treatments were needed to achieve success.

Following are side effects and contra-indications for the use of Horizontal:

Contra-indications:

- Patients with implanted pace maker;
- In pregnant women, the uterus should not be included in the flow field of the current;
- No application of any type of electric current should be carried out in cases of acute infections, in particular acute feverish general infections¹;
- No applications of any type of electric current should be carried out in areas of acute local bacterial infections.

Side effects:

- For diabetics dependent on insulin, there is the possibility that after intensive, i.e. highly dosed and longer-lasting current applications, the blood-sugar level will sink. The patients should be made aware of this, so that if first hypoglycaemic symptoms appear they can take measures to prevent a stronger hypoglycaemia by taking sugar.
- In patients with a tendency of hypo tonic disturbances of the circulatory regulation, a slight reduction in blood pressure after intensive, i.e. highly dosed and longer-lasting current applications may occur, especially if these take place in the back and abdominal area

Metal implantations after bone fractures, intrauterine pessaries (= "coils") and endoprotheses (implanted artificial joints) are not amongst the contra-indications.

Treatment in the area of varicose veins may also be given with currents produced by the Horizontal®-Therapy, except in special cases where the attending physician has individual concerns.

Within these clinical investigation 496 patients were treated with Horizontal®-Therapy. In total over 3000 treatments were administered over a period of 2.5 years. Pre and post therapy data in respect to pain levels, range of motion, medication etc. were disregarded. Only the total elimination of the symptoms per individual patient was considered a success.

Due to the relatively loose pass fail evaluation of patients this investigation should merely be regarded as a general look at the efficacy of Horizontal®-Therapy. Further specific comparative research is needed to quantify the exact indication specific efficacy of Horizontal®-Therapy.

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¹ Some chronic inflammations, even if they are caused by pathogens, are to be included in the indications, e.g. chronic adnexitis, chronic sinusitis, chronic otitis media (inflammation of the middle ear), chronic cystitis and chronic osteomyelitis.